

Performance Report of ASM1182e

Release Date: 2013/11/6

- **Test Environment:**

OS	Win8 x32bit
CPU	Intel core i5-3470 3.2GHz
Memory	Transcend 8GB
MB	ASUS Z77-V LK
BIOS version	908
BIOS setting	default setting
VGA	Intel HD Graphics 2500
VGA Driver	9.17.10.2828
PCIe to PCIe Bridge	Intel Z77_PCIEx1_1
118e on PCIe Slot	PCIEx1_1
PCIe control clock	250MHz

- **Test Result**

1. SATA Performance

Device Model Name	ASM1061		
PCIe Device Gen	Gen2		
Test HDD Model Name	OCZ vertex4 128GB SSD		
SATA HDD Gen	SATA III		
HD Tach Version : 3.0.1.0 (Long bench / 32mb zones)			
	ASM1182e	Non-ASM1182e	%
Burst	186.4	184.9	0.81%
Random access (ms)	0.1	0.1	0.00%
CPU utilization (%)	3%	3%	0.00%
Avg read : (MB/S)	253	251.1	0.76%
Avg write : (MB/S)	258	279.2	-7.59%
CrystalDiskMark Version : 3.0.2.C Test Pattern 1GB ; 9times)			
	ASM1182e	Non-ASM1182e	%
Sequence Read : (MB/s)	368.4	365.1	0.90%
Sequence Write : (MB/s)	358.6	372.5	-3.73%

512K Read : (MB/s)	281.9	281.4	0.18%
512K Write : (MB/s)	344.4	356.1	-3.29%
4K Read : (MB/s)	24.1	25.5	-5.49%
4K Write : (MB/s)	48.55	55.02	-11.76%
4KQD32 Read : (MB/s)	237.7	259.1	-8.26%
4KQD32 Write : (MB/s)	142.6	163.5	-12.78%

2. USB3.0 Device

Device Model Name	ASM1042		
PCIe Device Gen	Gen2		
Test HDD Model Name	ASM1053+OCZ vertex4 128GB SSD		
SATA HDD Gen	SATA III		
HD Tach Version : 3.0.1.0 (Long bench / 32mb zones)			
	ASM1182e	Non-ASM1182e	%
Burst	184	190.5	-3.41%
Random access (ms)	0.2	0.2	0.00%
CPU utilization (%)	6%	6%	0.00%
Avg read : (MB/S)	216.3	223.1	-3.05%
Avg write : (MB/S)	222.4	220.5	0.86%
CrystalDiskMark Version : 3.0.2.C Test Pattern 1GB ; 9times)			
	ASM1182e	Non-ASM1182e	%
Sequence Read : (MB/s)	314.4	319.1	-1.47%
Sequence Write : (MB/s)	372.6	362.9	2.67%
512K Read : (MB/s)	252.4	256.9	-1.75%
512K Write : (MB/s)	354.4	346.6	2.25%
4K Read : (MB/s)	19.77	21.8	-9.31%
4K Write : (MB/s)	38.01	38.46	-1.17%
4KQD32 Read : (MB/s)	143.9	155.6	-7.52%
4KQD32 Write : (MB/s)	148.5	160.6	-7.53%

3. LAN Card

Device Model Name	TPlink TG-3468
Server OS	XP_x32
Client OS	Win8_x32

Server (LAN chip)	RTL8111E		
Client (LAN chip)	Intel 210		
Chariot 5.0			
	ASM1182e	Non-ASM1182e	%
TX (Mbps)	947.643	947.755	-0.01%
RX (Mbps)	918.854	916.8	0.22%

4. Graphic Card

Device Model Name	AMD Radeon HD 6850		
PCIe VGA Driver :	8.97.10.6		
3D Mark2011 (BenchMark,1280*720,720P)			
	ASM1182e	Non-ASM1182e	%
BenchMark :	3311	3394	-2.45%